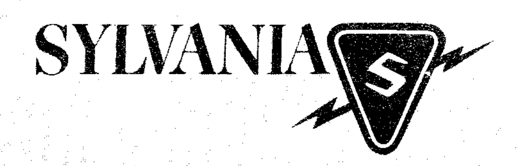


engineering data service

SYLVANIA

5764

MECHANICAL DATA

Maximum Overall Length	2.375 Inches
Maximum Overall Diameter	1.005 Inches

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage (AC or DC)	6.3 Volts
Heater Current	425 Ma

DIRECT INTERELECTRODE CAPACITANCES (MAX.)

Grid to Plate	1.50 $\mu\mu$f
Grid to Cathode	1.40 $\mu\mu$f
Plate to Cathode	.025 $\mu\mu$f

RATINGS (Absolute Values)

Plate Dissipation	5 Watts	Max.
Plate Voltage (Pulsed)	1500 Volts	Max.
Plate Voltage (CW)	1000 Volts	Max.
Operating Frequency	3300 Mc	Max.
Seal Temperature	175° C	Max.

CHARACTERISTICS

Conditions: (E_b=180 volts dc, R_k=400 ohms)

Transconductance	4500 μmhos
Amplification Factor	25
Plate Current	12 Ma

TYPICAL OPERATION

UHF Oscillator, CW — 1000 MC

Plate Voltage	150 Volts
Plate Current	25 Ma
Grid Resistor	100 Ohms

UHF Oscillator, CW — 3300 MC

Plate Voltage	150	200 Volts
Plate Current	25	25 Volts
Grid Resistor	100	100 Ohms
Cathode Resistor (approx. [1]	100	100 Ohms
Power Output	200	450 MW Min.

Pulse Operation — 3300 MC

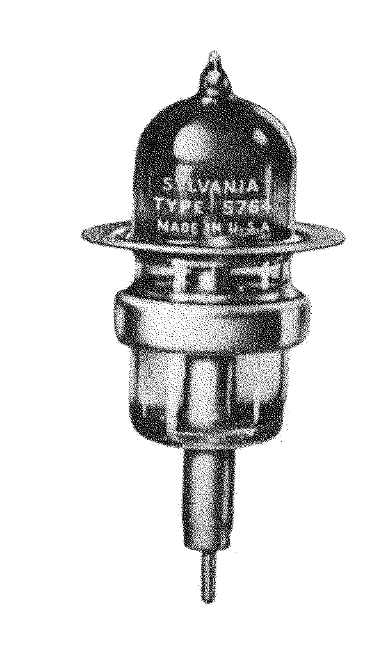
Peak Plate Voltage[2]	1500 Volts
Peak Power Output	175 Watts
Peak Emission	1500 Ma Min.

NOTES:

1. *Adjust for rated plate current.*
2. *Test conditions: Pulse Width, 1 μsec.; Pulse Rep. Rate, 2000 pps.*

QUICK REFERENCE DATA

The Sylvania Type 5764 is a uhf planar triode designed for service at frequencies up to 3300 mc as a cw or pulse modulated oscillator.



SYLVANIA ELECTRIC PRODUCTS INC.

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APPLICATION DATA

The Sylvania Type 5764 is a medium mu uhf triode employing planar construction. It is designed for service as a CW or pulse modulated oscillator at frequencies up to 3300 mc with medium power output. Frequency ratios of about 4 to 1 (250 mc to 1000 mc) for continuous tuning can be obtained up to 1000 mc with no dead spots throughout the range, ratios of about 3 to 1 can likewise be obtained up to 3300 mc.